	Application No.	Applicant(s)	
Notice of Allowability	10/020,341	BENNETT ET AL.	
	Examiner	Art Unit	
	Chih-Ching Chow	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *8/14/06*.

2. ☒ The allowed claim(s) is/are *9, 13-20, 25-28, 30, 34-36, 44, 47, and 48*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

    Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date *8/28/06*

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413),
    Paper No./Mail Date *10/26/06* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

Examiner's Amendment and Statement of Reasons for Allowance

1. This action is responsive to Applicant's amendment filed on August 14, 2006.

2. Per Applicants' request, the Specification, independent claims 9, 13, and 44 have been amended, claims 1-8, 10-12, 21-24, 37-43, 45-46 have been canceled.

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/02/2005 has been entered.

Examiner's Amendment

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Peter Chu, Registration Number 41,676, on October 27, 2006 for obviating any potential 101 issues and put the claims in condition for allowance.

The application has been amended as follows:

1-8. (Canceled)

9. (Currently amended) A <u>computer-implemented</u> method for dynamically verifying resource compatibility with an operating system, the method comprising:

obtaining a request to load a resource from an alternate resource module, wherein the alternate resource module corresponds to a selected language-specific interface of an operating system;

obtaining a first resource content of a default resource module from which the alternate resource module was localized;

obtaining a second resource content of a current default resource module;

determining whether the alternate resource module is compatible with the operating system based on comparing the first resource content and the second resource content; and

loading the requested resource from the alternate resource module if the alternate resource module is compatible with the operating system, including when the first resource content is the same as the second resource content as determined from comparing a representation of each of the default resource module and the current default resource module, wherein the representation is a unique number, the unique number is a checksum calculated using an MD5-message digest algorithm, and if the alternate resource is incompatible, the method terminates execution.

10-12. (Canceled)

13. (Currently amended) A computer-implemented method for dynamically verifying resource compatibility with an operating system, the method comprising:

obtaining a request to load a resource from an alternate resource module, wherein the alternate resource module corresponds to a selected language-specific interface of an operating system;

obtaining a first resource content of a default resource module from which the alternate resource module was localized;

obtaining a second resource content of a current default resource module;

obtaining version information of the alternate resource module;

obtaining version information of the current default resource module;

determining whether the alternate resource module is compatible with the operating system based on the first resource content and the second resource content, including comparing the version information of the alternate resource module and the current default resource module; and

loading the requested resource from the alternate resource module if the alternate resource module is compatible with the operating system, including loading the requested resource from the alternate resource module when the version information of the alternate resource module and the current default resource module are the same, and if the alternate resource is incompatible, the method terminates execution.

21-24. (Canceled)

25. (Currently amended) A computer-implemented method for dynamically verifying resource module compatibility with an operating system, wherein the resource modules include language-specific data such that a default resource module corresponds to a default interface language and one or more alternate resource modules correspond to a selected interface language, the method comprising:

obtaining a request to load a language-specific resource from an alternate resource module;

obtaining version information of the alternate resource module;

obtaining version information of a current default resource module;

comparing the version information of the alternate resource module and the current default resource module;

determining that the version information of the current default resource module and the alternate resource module are not the same;

obtaining a first resource content of a default resource module from which the alternate resource module was localized;

obtaining a second resource content of the current default resource module;

comparing the first resource content and the second resource content; and

loading the requested language-specific resource from the alternate resource module if the first resource content is the same as the second resource content, and if the first resource content is different from the second resource content, the method terminates execution.

27.   Dependency change to renumbered claim 12.

28.   (Currently amended) A computer system for dynamically verifying that resource module is compatible with an operating system, the computer system comprising:

a processor;

a resource loader for loading a resource in a selected language-specific interface from a resource module in an operating system;

a current default resource module including at least one resource, wherein the current default resource module has a first resource content; and

an alternate resource module including one or more resources localized from a default resource module, wherein the default resource module has a second resource content from which the one or more resources included in the alternate resource module were localized;

wherein the resource loader loads the one or more resources from the alternate resource module when the alternate resource module is compatible with the operating system, including when the second resource content is the same as the first resource content by comparing checksums of the respective first and second resource content.

29. (Canceled)

31-33. (Canceled)

37-43. (Canceled)

44.   (Currently Amended) A computer-readable medium having computer-executable modules, comprising:

a resource loader module for loading a resource from a resource module in an operating system, wherein the resource is a language-specific interface;

a current default resource module including at least one resource having a first resource content;

an alternate resource module including one or more resources localized from a default resource module having a second resource content form which the one or more resources in the alternate resource module were localized;

a registry resource version database holding version information of the current default resource module, version information of the default resource module from which the one or more resources of the alternate resource module were localized, and compatibility information for the respective version information of the current default resource module and the alternate resource
module; and

wherein the resource loader utilizes the respective version information to obtain the compatibility information to load the resource from the alternate resource module when the alternate resource module is determined to be compatible with the operating system, including when the second resource content is the same as the first resource content.

45-46. (Canceled)

47. (Currently amended) The method of claim 25, further comprising tracking compatibility information by the version information of the alternate resource module and the current default resource module, the compatibility information indicating whether the first resource content is the same as the second resource content by comparing checksums of the respective first and second resource content. (note claim 47 is renumbered to claim 12.)

48. Dependency changed to renumbered claim 13.

-- End --

Examiner's Statement of Reason(s) for Allowance

5.   Claims 9, 13-20, 25-36, 44, 47-48 are allowed.

6.   The following is an examiner's statement of reasons for allowance:

The prior arts of record: **Retting**, teaches a method for language-specific resources are
contained in alternate language modules through a dynamic addressing scheme that
allows the alternate language file suite to be expanded without modification to any
central routing facility. The invention provides resource-handling components the
capability for handling multiple-language resources without requiring any specific
directions from the processes requesting the resources This allows the operating system
to provide multilingual support while using existing resource and executable binary files
without modification. **Hassett**, teaches an apparatus and computer-implemented method
for distributing information to a plurality of client devices on a network is disclosed.
New art made of record: U.S. Patent No. 4,558,413 by **Schmidt** et al., teaches a software
version management system, also called system modeller, provides for automatically
collecting and recompiling updated versions of component software objects comprising
a software program for operation on a plurality of personal computers coupled together
in a distributed software environment via a local area network. However, none of them,
taken alone or in combination, teaches at least a method of loading a resource from an
alternate resource module in an operating system, wherein the resource is a language-
specific interface, check if the alternate resource module is compatible with the
operating system, by comparing the checksum of each of the default resource module
(from which the alternate resource module was localized) and the current default
resource module, in such a manner as recited in independent claims 9 and 28; and
comparing the version information of the current default resource module, and the
default resource module, as recited in independent claims 13, 25 and 44.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7.　　　Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Ching Chow whose telephone number is 571-272-3693. The examiner can normally be reached on 7:00am - 3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chih-Ching Chow
Examiner
Art Unit 2191
October 31, 2006

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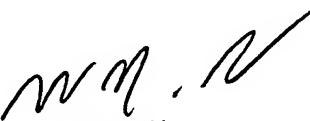
WEI ZHEN
SUPERVISORY PATENT EXAMINER